

9-4-12

DIVIDING FRACTIONS, WHOLE #s, and MIXED #s

"How many of the divisors are there in the dividend?"

Ex: $6 \div 2 = 3$
dividend divisor

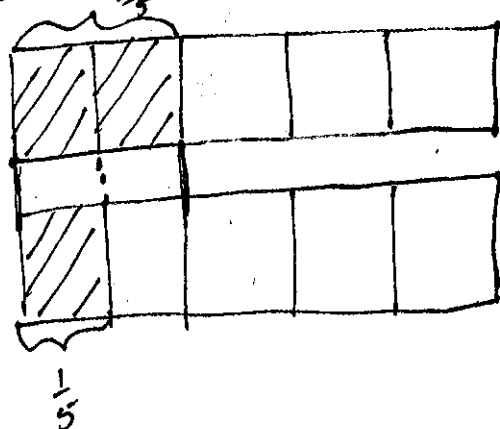
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How many
2s are in 6?



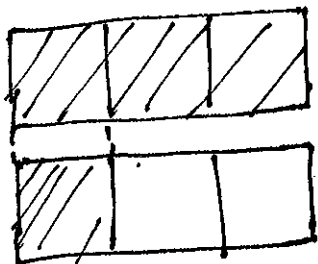
Ex: $\frac{2}{5} \div \frac{1}{5} = 2$

"How many $\frac{1}{5}$ s are in $\frac{2}{5}$?"



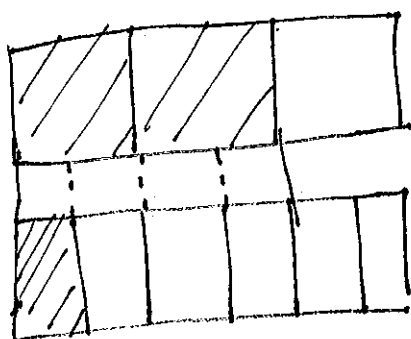
Ex: $1 \div \frac{1}{3} = 3$

"How many $\frac{1}{3}$ s are in 1 whole?"



Ex: $\frac{2}{3} \div \frac{1}{6} = 4$

"How many $\frac{1}{6}$ s are in $\frac{2}{3}$?"



Reciprocal - flip the numerator & denominator

* * Mixed #s must 1st be changed to improper fractions

Ex: $\frac{4}{7} \rightarrow \frac{7}{4}$

$\frac{1}{8} \rightarrow \frac{8}{1} = 8$

$2\frac{2}{5} = \frac{12}{5} \rightarrow \frac{5}{12}$

$6\frac{1}{3} = \frac{19}{3} \rightarrow \frac{3}{19}$

STEPS:

- ① Make sure both #s are FRACTIONS
(Whole #s \rightarrow put a 1 under it)
Mixed #s \rightarrow improper fractions)
- ② KFC \rightarrow KeeP the 1st # (dividend)
Flip the 2nd # (divisor)
Change the \div to \times
- ③ Simplify b4 you multiply
- ④ Multiply straight across

Ex: $6 \div \frac{5}{6}$

① $\frac{6}{1} \div \frac{5}{6}$

Make both fractions

② $\frac{6}{1} \times \frac{6}{5}$

KFC

③ $\frac{6}{1} \times \frac{6}{5} = \frac{36}{5} = 7\frac{1}{5}$ Multiply

Ex. $\frac{2}{3} \div \frac{3}{5}$

$$\frac{2}{3} \times \frac{5}{3} = \frac{10}{9} = 1\frac{1}{9}$$